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Listing of Claims

1. (Amended) A method for production of curved thread-reinforced tubular structures composed of rubber layers and of strengthening layers, comprising the steps of:

applying a first rubber layer to a circumference of <u>an essentially cylindrical mandrel</u> mandrels driven forward in a feed direction (X) <u>coinciding with the cylinder axis of the mandrel</u>;

winding on a multiplicity of parallel reinforcing threads, having defined thread angles (α) with respect to a feed axis the feed direction, by means of a bobbin creel, to form a first thread ply, the mandrel mandrels being led through a rotating deflection element having and inner circumference with a diameter greater than the diameter of the mandrel, the inner circumference surrounding the mandrel mandrels and guiding the reinforcing threads see as to which are distributed on along the inner circumference;

applying a covering rubber layer, wherein

the mandrel is mandrels are led through the deflection element of the bobbin creel and the cylinder axis of the mandrel is offset with respect to the axis of rotation eccentrically in the region of the deflection element, the axis of rotation and the cylinder axis being parallel to each other.

2. (Amended) The method as claimed in claim 1, further comprising a preceding step of displacing a guide of the mandrel mandrels transversally to the feed direction (X) about to a position in which the cylinder axis of the mandrel is shifted with respect to a concentric lead through of the mandrels through the axis of rotation of the deflection

element.

- 3. (Amended) The method as claimed in claim 1, further comprising <u>a preceding</u> step of displacing the deflection element, together with the bobbin creel, transversely to the feed direction (X) from to a position shifted with respect to a concentric load through of the mandrels through in which the axis of rotation of the deflection element is shifted with respect to the cylinder axis of the mandrel.
- 4. The method as claimed in claim 1, wherein the applying the covering of the rubber layer is provided after optionally multiple execution of at least one of the applying a first rubber layer and the winding steps.
- 5. (Canceled
- 6. (Withdrawn) A device for the production of curved thread-reinforced tubular structures, comprising:

at least one bobbin creel which has a rotatable deflection clement which surrounds mandrels being driven forward in a feed direction (X) and which guides reinforcing threads so as to be distributed on the inner circumference; and

adjustable guide means for leading the <u>mandrel</u> mandrels through the deflection element of the bobbin creel eccentrically in the region of the deflection element.

- 7. (Withdrawn) The device as claimed in claim 6, wherein the guide means cooperate with the bobbin creel in order to displace the bobbin creel transversely to the feed direction (X) about a position shifted with respect to the concentric lead through of the mandrel mandrels through the deflection element.
- 8. (Withdrawn) The device as claimed in claim 6, wherein an inside diameter of the deflection element is correspondingly larger than a diameter of the mandrel covered

with at least one rubber layer.

9. (Amended) A method for production of curved thread-reinforced tubular structures, comprising the steps of:

leading at least one <u>essentially cylindrical</u> mandrel through a deflection element of a bobbin creel in a feed direction <u>coinciding with the cylinder axis of the at least one mandrel</u>, <u>the deflection element having an inner circumference with a center axis</u> offset from <u>the cylinder axis of the at least one mandrel</u> a <u>central longitudinal axis of the deflection element</u>; and

winding a multiplicity of parallel reinforcing threads on the at least one mandrel as the mandrel is led through the deflection element resulting in defined thread angles ( $\alpha$ ) with respect to a feed axis the feed direction to form a tubular structure having a curvature.

10. (Amended) The method as claimed in claim 9, further comprising the steps of:

applying a rubber layer to a circumference of the at least one mandrel driven forward in [[a]] the feed direction (X); and

applying a covering rubber layer to the rubber layer.

- 11. (Canceled)
- 12. (Amended) The method as claimed in claim [[11]] 9, wherein the thread angles correspond directly to a distance of the <u>inner circumference of the</u> deflection element from the at least one mandrel so that when the at least one mandrel is led through the deflection element different thread angles are produced over a circumference of the at least one mandrel.
- 13. (Original) The method as claimed in claim 9, wherein the winding on a multiplicity

of parallel reinforcing threads forms a tubular structure which automatically undergoes a curvature after the multiplicity of parallel reinforcing threads are drawn off from the at least one mandrel.

- 14. (Original) The method as claimed in claim 13, further comprising vulcanizing the multiplicity of parallel reinforcing after it is drawn from the at least one mandrel.
- 15. (Amended) The method as claimed in claim 9, further comprising varying the offset lead through of the at least one mandrel of the cylinder axis with respect to the center axis at selected portions to define curvatures of a resultant tubular structure.
- 16. (Amended) The method as claimed in claim 15, further comprising varying the lead through position of the cylinder axis of the at least one mandrel at selected portions to be concentric with the <u>center axis of the inner circumference of the</u> deflection element.
- 17. The method as claimed in claim 9, wherein the lead through of the at least one mandrel through the deflection element offset of the center axis from the cylinder axis is provided by at least one of:

displacing guides of the <u>at least one mandrel mandrels</u> transversally to the feed direction <del>about</del> to a position where the cylinder axis of the at least one mandrel is shifted with respect to a concentric lead through of the at least one mandrel through center axis of the inner circumference of the deflection element; and

displacing the deflection element, together with the bobbin creel, transversely to the feed direction from to a position where the center axis is shifted with respect to the concentric lead through cylinder axis of the at least one mandrel through the deflection element.

18. (Amended) The method as claimed in claim 9, wherein the at least one mandrel is advanced in a continuous process in a feed direction (X) through successively

arranged extrusion devices.

- 19. (Amended) The method as claimed in claim 9, wherein the thread angles are dependent on a feed speed of the at least one mandrel and a gap between an the inner circumference of the deflection element and an adjacent outer circumference of the at least one mandrel.
- 20. (Amended) The method as claimed in claim 9, wherein:

a smaller gap between the circumferential region outer circumference of the at least one mandrel and the inner circumference of the deflection element results in smaller thread angles  $\alpha_1$ ;

a larger gap between the eircumferential region outer circumference of the at least one mandrel and the inner circumference of the deflection element results in larger thread angles  $\alpha_2$ ; and

a small radius of the curvature is obtained in a region of the smaller thread angles  $\alpha_1$  and a large radius of the curvature is obtained in a region of the large larger thread angles  $\alpha_2$ .

### CONCLUSION

For the foregoing reasons, Applicants respectfully submit that claims 1-4, 9, 10, and 12-20 are patentable.

No new subject matter was entered.

Jelinde Nathles

A speedy allowance would be appreciated.

Respectfully submitted,

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# Langenscheidts New College German Dictionary

German-English English-German



LANGENSCHEIDT NEW YORK - BERLIN - MUNICH - VIENNA - ZURICH

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Revised and enlarged editi-

Vocabulary

Phreseology

Translations

Completely Revised Edition 1995

Langenscheidt's New College German Dictionary, German-English

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#### donnernd

belt round the ears; 'doninernd adj. thundering, roaring; thunderous ap-plause; ... os Gelöchter roars of laughter; "Den-ner-sching m clap of thunder, thunderclap; of traf the wie off ~ it came like a hombsbell (to him)

Don-nero tag ['donesta:k] m (-[e]s: -c)

Thursday; (am) ~ on Thursday; 'don-ners-tage adv. on Thursday; 'don-ners-tage adv. on Thursday(s)

Don-neristim-me f thundering voice;
mR ~ brollen thunder; west-fb f l n

(a; ) 1, eln ~ ging ad inn nioder f he got a real roasting; wenn er helm-got a real roasting; wenn er helm-nommt, glid (or sotzi) as oln — F he'll be in for it when he gets home; IL int. 2. F (well) blow me!, blimey!; 3. zum ~! damn.it!; warum (we ste.) zum ~? sl.

why (who etc.) the hell?
door [door] F adj. stupid; boring; dieses
of Feneter schließt nicht richtig I can't

-s Fensier schließt nicht nichtig I can't set this stund window to shut properly; Dood! [dots] Fm (-s; -s) F dumbo do-pan [dots], the fact ope; Dophra [dotpan, 'dopan] (h) I. v/r. dope; II. v/r. fl.: sleh - take dope; Dophra [dotpan, 'dotpan] n (-s; -s) doping; 'Dophra ['dotpan, 'dotpan] n (-s; -s) i: duplicate; 2. terms str: 'doubles pl: 'dotbles tram; gemischies - mixed doubles pl: \_adler m double cagle; \_appart m double agent; \_b n d double flat (sign); \_becounting f double flat (sign); \_abecounting f double can; \_abe-lo-tang f double cocupancy; \_abellethung f obble cappancy; \_aberlethung f double coordancy; Lawrething f phot. double exposure; Lawrething f twin tyres (Am. tires) pl.; Lawrething reng f double taxation; Lawrit n double bed; Laindwer-uch in double blind trial (or test); Lawrethin in law bottom trial (or test); "Do-zea m false bottom dop-ped-bb-elig [-berdig] fig. ad) ambiguous; "O Moral double mandards pl.:
"Dop-ped-de-bed-elightelight [-; no pl.) ambiguity; double standards pl.
"Dop-ped-de-tret [-dakt] (sep. -k-k-) m
(-si-) hiplans; F double-de-cker

[de-pod-de-bed-unde L-dvvrol ad] ambigu-

(-s; -) suplans; - count-decarr 'cop-gol-cou-do [-dryuc] ad/ ambigu-ous; suggestive; 'Dop-gol-cou-dig trait/ (-; -cn) 1. no pl. ambiguity; suggestive ness; 2. ambiguous (or suggestive) re-

marti
Dep-pollene f bisamy; O-e ... führen
have (or live with) two vives or hushands; Lerrolg m double victory (or
secess); Reb-lor m tempts double failt; success); "feb-lor m tenus: double failt;
"fen-riter n double(glezed) window; pl.
coll. a. double glezing ss; "Alln-ta f double-barrel(f)od gun; "gäs-gez [-gcn] m
(-a; ") double; tookalike; "gan-ze f (-n;
"fen-ze-o-ta f b trave; žgleivig
[-glaric] ssj. — gevelgloisig; "grifi m d
double stop

counce sup Oup-pot-hours n pair of semis; .half-tof semi-detached hours, F semi Desposithech-zoit f double wedding; .hann n double chin; .httin-go f; Rasio-Alinn n double chin; Lilin-52 f; Rashe-ror mit. twin-bladed razor; Lion, garin double concerto; Livous n d double sharp (sign); Elsurin adj. double-bar-rel[[]ed; Lilin m big. diphthons; Ale-ben n double life; Lino, ral f double standards pl.; Linord m double murder; standards pl.; "mord m double murder; "nome m double barel(bed name; double barel(bed name; double parte; "packung (sep. -k-k-) f double pack; "paß m soczer: one-two; "portrili n double portrali; "punkt m colon; "szara-piñ-be m full-fat checse; "rebten m twin tyre (Am. tire); Srebhig [-raue] adj. double-breasted; "roble f

thea. and: fig. double role; &sel-tig [-zartro] L. adj. double-page spread; textil. reversible; double; e. Langenent-zondung double pincumonia; II. adv. on both sides; → geiähmt; "sleg m double

boopel-sinn m double meaning, ambiguity; 'doop-pel-sinn m double meaning, ambiguous 'Dop-pel-sinn m; double dealing; em ambiguity; 'dop-pel-sinn mig double dealing; em ambiguous 'Dop-pellspiel fig. n double-cross s.o., two-times.o.; ...apull-backen (sep. -k-k-) n double-bowl isuhen sink; ...dtaalso-angel-hör-felden f dual nationality; ... stechter (sep. -k-k-) m (-s; -) f double plug; two-way adapter; Satisfiel [-fwo-stories] (sep. -k-k-) adj; two-stories] (sep. -k-k-) adj; two-stories; motorway etc.; two-tiered, two-tier ...; F ...Or Whisty double whisky; ...etrien m ] doubts bar doubts bar

dop-poli (dopoli) L add double (a which site); den an Prois double the price; ar Lahn double-time payment; and of both double-time payment: ~co (Ded twin critis et. ~ hoben have two (topics) of. ~ Austerfigung, Godon I, Euchtshrung, Moral I, Spiel I, Stoute-angenöriguett; II. adv. double; twice; with adj. doubly; ~ sohns see double; ~ cehmeralich doubly painful; ~ so all interior twice my age; ~ to lang twice as long; ~ to groß twice the size; ~ coviet twice as much, double the amount (or price etc.); F. C.!. ~ und drolloch otchern make obsolutely sune; F. os. Im ~ und price etc.); F.C., ~ und drolloch stoners make obsolutely sure; F. es. I-m ~ und dreifsch holmaschian F. pay a.o. back with a vengennea; F.; gemoppest tauto-logous; ~ nühen I; 'Dop-pelt'et. I. (~i., no pl.) double; twice as much (or many); des ~ don Betrogs double the amount; 8. F.m (-a; -n).double whisty etc.; 'despesible and one source adj.: 'A doppesite the continue of the continue

sods
Doppsijter / double door(s pl.); \_verelerse m t. double wase-earner; 2. pl.
dual-income couple se; \_wordenes m
dual income; \_worge-eer m dual carburet(t)or; \_wergele-eurs / double
glazing; \_worstel-lung / double bill;
double feature; \_wein-rung / p himetalism; \_sol-lig \_train; \_adv: \_ gelipst
double-paced; \_atm-mer n double
room; twin-bedded room
'dop-pa-lain-riag \_train; \_adi: \_ two-

'doppakatheig [tsyng] ad. two-heed, ambiguous remark etc.; 'Dap-paksungipheit f(-; -en) t. no pl. two-heedness; umbiguity; 2. ambiguous re-mark

Dopp-lor-al, feld ['dople-] m phys. Dop-

Deri [darf] n (-[c]s; DBrfer ['darfe]) village; out dem - wonnen live in a village; er sigmint vom ~ he's from the country; die Wolf ist ein a it's a small world; contp. das ist jo bier cin richtiges a this place is so provincial; \_bearch-acr m

Dist-chan ['deerican] n (-s; -) little village;

namer:
'Derfdu-gend f young people (or young-sters) pl. in the village dorstich ['derflu] adj. village life etc.;

mistic Desilptures m country vicar; spirits m village green; schorete f; swirts haus m village film

Dorn [dorn] m (-[e]s; len) thorn (a. fig.);

prinkle, & spine; a. sport; spike; tongue; @ pin, bolt; fig. er ist ihr ein ~ im Auge he's a thorn in her side (or flesh); ~busch m thornbush; bibl. der bronnende ~ the

m inormoush; oid! der bronnende ... the burning bush
Dorners gele et upp ['darnen-] n morn
bushes pl., brambles pl.; ...hecke (rep.
k.k-) f prickly hedge, hedge of thorns;
...bronn f crown of thorns; &reten fig.
adj., Svoll adj. bard, difficult

Demifort-satz m anat. spinous process; whal m dostlish

cornig ['dornic] adj. thorny (a. fig.),

prickly
Dornovschen ['dornreisten] n (-8; no
pl.) Sleeping Beauty; "schlaf m: nm ~
llegon be in (a state of) historia s-m ~ erapehen come out of one's long hibernation

americation derived it. (h) dry, desiceate; kilo-dry, II. v/i. (sa) dry (up)
Dörffielsch [dor.]n dried meat; -obsin dried fruit; .pfilou-me / prunt
Dorsch [dor.] m (-ie]s; -e) cod, Am. a.

dan [dont] adv. there; ... ordbon over there; von ~ where adv. (von) from there; whin adv. 1. there; 2 that way; while adv. up there; whin was adv. out there; F fig. bis ~ F incredibly ...; bis washelfen F work like orazy; while he have being adv. adr. in there; whin under adr. down

dortig [dorus] adj.: dio .en Verhültnisgo the conditions there

doregu-lan-de ['dorttsulande] adv. there, in those parts

Do-se [dotze] f (-; -e) box; tin, can; & box dd-sen ['dezzen] F v/i. (h) doze; (vor sich hin) ~ daydream; ein bißehen ~ have a little doze

'De-ceribler n canned beer; "Baleen n, mileh f. "Ba-ner m — Bachsen-fielsch etc.

do-sie-ron [do'zhran] v/t. (h) measure

do-ste-ron [do ziran] v/s. (h) measure out; fig. mete out, dispense; richtig ~ pharm. give (or take) the right dose of; De-sie-rung / (-; -en) dosage, dose dö-tig [dozze] f ad/. 1. dozy, sleepy; g. f dop[e]y Do-sie [dozze] f (-; Desen [dozzen]) dose (a. fig.), dosage; fig. touch, dash Dos-sier [do-sie] a (-; -s) file do-liert [do tire] ad/.: gut a sein be well paid; die Stellung for me 5000 Mork — the monthly salary for the post is 5000 marks; des Turnier ist mn 300 000 Mork — the total price money for the Marks, was learner at the court of the Marks, the total prize money for the tournament is 300 000 marks; the Adsassichnung lat mit \$3 000 Marks, the award includes prize money of 25000

Dotter ('dots) m, n (-s; -) (egg) yolk; -blb-me f marsh manigold; Egelb adj. deep yellow

doughets ['durbels] v/t. (b): j-n ~ film: be (or ant as) s.o.'s stuntman or stunt woman (or double); or musito in diesel' Szene gedeubelt werden they had to bring in a stuntman (or double) for that bring in a stuntman (or double) for the secre; Dou-ole ['dubel] n (s; 5) 1. [lim; stuntman, stuntwoman, double; 3: 8 double; 3. 4 double; 3. 4 double; 4. sport; double; 6ss ~ schaffen do the double Dou-blette — Dublette

Dorzent [do'tsent] m (-en; -en) (universi-ty) locturer; Am. assistant professor; 63zio-ren (do'tsiren) v/i. (h) lecture (#27

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ecc. on) (a. fig. versität he's a Dra-che ['draxa' Dra-chen ('drax steigen lässen 3. fig. shrew. f hang glider; ~0 cord, dragon's Dra-gee n, Dra (sugar)coated t Drafit (dra:t) m wire; fig. line; direkter ~ direk ~ sein F be o m phot. cable 1 brush; ~Osel F boneshaker; ~ broadcasting; . .glas n vire(d)
'Dramhaarjdec hair(ed dachshi hair(ed dachant hair(ed terrier) drah-lig ['draite, 'draht-los adj. w laton cordless nung infrared :
'Drohlipup-po / wire string; ...dd e-o ~ a pair of 'Orehi-sell n w tightrope; — Ma high-wire) act; f das Ganzo lat etc. balancing o

'Orahisteb n wi Frairs) \land \text{is} \t erbroker

cable railway; .

artist

Drai-na-go (dre': see; drai-nie-r drain dra-no-niech (dr

dreli (drai) I. *cdj*. යි m (-{e}s; -e) ණ වැටැන්ට ['dra:ma fig.); play: fig. n make a big thir [dra'mattk] / (-(high) drama, tov [dra'mattk playwright; ©ri ศาการ์เจติยาก adapt for the str ma-turg [dramu gan) script edi motur-gisch ( esturgical Gron (dran) F pr

chicken's) all s Chicken's) all s offices (nichto) (nothing to it); early (late); er is he's doing all ri be's compling th 'the tempting and it 'the delung and it for clothes?: Ict hir .. bin I never ber; & wor let , Mn ... it's my tar H; blat-bon F No. 8h Jun - kcc

dom Mühnchet

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